SEQUENCE LISTING

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<110>  Houtz, Robert L.
       Dirk, Lynette M.A.
       Williams, Mark Alan

<120>  Inhibitors of Plant Peptide Deformylase for Use as Broad-Spectrum
       Herbicides and Method for Identifying the Same

<130>  028750-205

<140>  US 09/617,805
<141>  2000-07-14

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<170>  PatentIn version 3.1

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Val Ala Lys Pro Val Glu Glu Val Asn Ala Glu Ile Gln Arg Ile Val
            20                  25                  30


Asp Asp Met Phe Glu Thr Met Tyr Ala Glu Glu Gly Ile Gly Leu Ala
        35                  40                  45


Ala Thr Gln Val Asp Ile His Gln Arg Ile Ile Val Ile Asp Val Ser
    50                  55                  60


Glu Asn Arg Asp Glu Arg Leu Val Leu Ile Asn Pro Glu Leu Leu Glu
65                  70                  75                  80


Lys Ser Gly Glu Thr Gly Ile Glu Glu Gly Cys Leu Ser Ile Pro Glu
                85                  90                  95


Gln Arg Ala Leu Val Pro Arg Ala Glu Lys Val Lys Ile Arg Ala Leu
            100                 105                 110


Asp Arg Asp Gly Lys Pro Phe Glu Leu Glu Ala Asp Gly Leu Leu Ala
        115                 120                 125


Ile Cys Ile Gln His Glu Met Asp His Leu Val Gly Lys Leu Met Phe
    130                 135                 140


Asp Tyr Leu Ser Pro Leu Lys Gln Gln Arg Ile Arg Gln Lys Val Glu
145                 150                 155                 160


Lys Leu Asp Arg Leu Lys Ala Arg Ala
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Met Glu Thr Leu Phe Arg Val Ser Leu Arg Leu Leu Pro Val Ser Ala
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Ala Val Thr Cys Arg Ser Ile Arg Phe Pro Val Ser Arg Pro Gly Ser
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Ser His Leu Leu Asn Arg Lys Leu Tyr Asn Leu Pro Thr Ser Ser Ser
        35                  40                  45

Ser Ser Leu Ser Thr Lys Ala Gly Trp Leu Leu Gly Leu Gly Glu Lys
    50                  55                  60

Lys Lys Lys Val Asp Leu Pro Glu Ile Val Ala Ser Gly Asp Pro Val
65                  70                  75                  80

Leu His Glu Lys Ala Arg Glu Val Asp Pro Gly Glu Ile Gly Ser Glu
                85                  90                  95

Arg Ile Gln Lys Ile Ile Asp Asp Met Ile Lys Val Met Arg Leu Ala
            100                 105                 110

Pro Gly Val Gly Leu Ala Ala Pro Gln Ile Gly Val Pro Leu Arg Ile
        115                 120                 125

Ile Val Leu Glu Asp Thr Lys Glu Tyr Ile Ser Tyr Ala Pro Lys Glu
    130                 135                 140

Glu Ile Leu Ala Gln Glu Arg Arg His Phe Asp Leu Met Val Met Val
145                 150                 155                 160

Asn Pro Val Leu Lys Glu Arg Ser Asn Lys Lys Ala Leu Phe Phe Glu
                165                 170                 175

Gly Cys Leu Ser Val Asp Gly Phe Arg Ala Ala Val Glu Arg Tyr Leu
            180                 185                 190

Glu Val Val Val Thr Gly Tyr Asp Arg Gln Gly Lys Arg Ile Glu Val
        195                 200                 205

Asn Ala Ser Gly Trp Gln Ala Arg Ile Leu Gln His Glu Cys Asp His
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Leu Asp Gly Asn Leu Tyr Val Asp Lys Met Val Pro Arg Thr Phe Arg
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Gly Pro Gln



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Glu Lys Ala Arg Glu Val Asp Pro Gly Glu Ile Gly Ser Glu Arg Ile
        35                  40                  45


Gln Lys Ile Ile Asp Asp Met Ile Lys Val Met Arg Leu Ala Pro Gly
    50                  55                  60


Val Gly Leu Ala Ala Pro Gln Ile Gly Val Pro Leu Arg Ile Ile Val
65                  70                  75                  80


Leu Glu Asp Thr Lys Glu Tyr Ile Ser Tyr Ala Pro Lys Glu Glu Ile
                85                  90                  95


Leu Ala Gln Glu Arg Arg His Phe Asp Leu Met Val Met Val Asn Pro
            100                 105                 110


Val Leu Lys Glu Arg Ser Asn Lys Lys Ala Leu Phe Phe Glu Gly Cys
        115                 120                 125


Leu Ser Val Asp Gly Phe Arg Ala Ala Val Glu Arg Tyr Leu Glu Val
    130                 135                 140


Val Val Thr Gly Tyr Asp Arg Gln Gly Lys Arg Ile Glu Val Asn Ala
145                 150                 155                 160


Ser Gly Trp Gln Ala Arg Ile Leu Gln His Glu Cys Asp His Leu Asp
                165                 170                 175
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Gly Asn Leu Tyr Val Asp Lys Met Val Pro Arg Thr Phe Arg Thr Val
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Asp Asn Leu Asp Leu Pro Leu Ala Glu Gly Cys Pro Lys Leu Gly Pro
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Gln



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<213>  Chlamydia

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Ser Ser Pro Ile Ala Glu Ile Thr Asp Glu Ile Arg Asn Leu Val Ser
            20                  25                  30

Asp Met Cys Asp Thr Met Glu Ala His Arg Gly Val Gly Leu Ala Ala
        35                  40                  45

Pro Gln Val Gly Lys Asn Val Ser Leu Phe Val Met Cys Val Asp Arg
    50                  55                  60

Glu Thr Glu Asp Gly Glu Leu Ile Phe Ser Glu Ser Pro Arg Val Phe
65                  70                  75                  80

Ile Asn Pro Val Leu Ser Asp Pro Ser Glu Thr Pro Ile Ile Gly Lys
                85                  90                  95

Glu Gly Cys Leu Ser Ile Pro Gly Leu Arg Gly Glu Val Phe Arg Pro
            100                 105                 110

Gln Lys Ile Thr Val Thr Ala Met Asp Leu Asn Gly Lys Ile Phe Thr
        115                 120                 125

Glu His Leu Glu Gly Phe Thr Ala Arg Ile Ile Met His Glu Thr Asp
    130                 135                 140
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His Leu Asn Gly Val Leu Tyr Ile Asp Leu Met Glu Glu Pro Lys Asp
145                 150                 155                 160

Pro Lys Lys Phe Lys Ala Ser Leu Glu Lys Ile Lys Arg Arg Tyr Asn
                165                 170                 175

Thr His Leu Ser Lys Glu Glu Leu Val Ser
            180                 185
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